

IN THE CLAIMS:

Claim 1 (Currently Amended) A computer program product for program level message traffic interception comprising:

a computer-readable medium;

a protocol independent API core module stored on the medium, the API core module having an array of predetermined rules for intercepted message traffic; and

an interface communication emulator module communicatively coupling protocol-specific program level message traffic to the API core.

Claim 2 (Original) The computer program product of claim 1 further comprising a message database communicatively coupled to the API core module, the message database further comprising an array of message properties for each message.

Claim 3 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message interpretation data.

Claim 4 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message formatting data.

Claim 5 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message routing data.

Claim 6 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message default values.

Claim 7 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message transmission rules.

Claim 8 (Original) The computer program product of claim 2 wherein the array of message properties further comprise enable-lockout combination data.

Claim 9 (Original) The computer program product of claim 2 wherein the array of message properties further comprise limits on message field values.

Claim 10 (Original) The computer program product of claim 2 wherein the array of message properties further comprise message field units.

Claim 11 (Original) The computer program product of claim 2 wherein the array of message properties further comprise user-defined identifiers.

Claim 12 (Original) The computer program product of claim 2 wherein the array of message properties further comprise interface information.

Claim 13 (Original) The computer program product of claim 2 further comprising a scenario module communicatively coupled to the message database, the scenario module further comprising state machine emulation definition, the definition providing event-driven parameters responsive to message traffic.

Claim 14 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on message identification.

Claim 15 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on message contents.

Claim 16 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on message occurrence.

Claim 17 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on message frequency.

Claim 18 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on a count of the number of times an event's parameters have been satisfied.

Claim 19 (Original) The computer program product of claim 13 wherein the event-driven parameters discriminate between messages based on a comparison with variables.

Claim 20 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters modify the contents of a message.

Claim 21 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters route a message.

Claim 22 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters delete a message.

Claim 23 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters controls other events.

Claim 24 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters performs calculations.

Claim 25 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters controls user displays.

Claim 26 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters extracts at least one value from a message.

Claim 27 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters creates and sends an arbitrary message defined in the database.

Claim 28 (Original) The computer program product of claim 13 wherein an event defined by the event-driven parameters transforms an incoming message into a different message defined in the database.

Claim 29 (Original) The computer program of claim 13 wherein the actions triggered by an event provide logical branching, looping, iteration, and internal or external subroutine calling capability.

Claim 30 (Original) The computer program product of claim 13 wherein the communications interface emulator module is communicatively coupled to the scenario execution module which is communicatively coupled to the message database whereby messages are received, reformatted into a message database compliant structure and outbound messages generated by the scenario module are passed back to the communications interface emulator module for protocol-specific transmissions

Claim 31 (Original) The computer program product of claim 13 further comprising a post-test data analysis capability wherein recorded data may be analyzed, abstracted, and displayed in a variety of text and graphical formats.